



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

P. O. Box 1217
PARKERSBURG, W. VA. 26101

POLYMER PRODUCTS DEPARTMENT

AR226-1612

Complainant's
Exhibit No. 77

CC: J. H. Todd
G. T. Rosenlund
R. J. Burger
J. F. Doughty
D. A. Erdman
Dr. Y. L. Power
T. L. Schrenk
G. H. Stoltz
R. N. Taylor
P. Thistleton
R. J. Zipfel

February 19, 1982

PERSONAL AND CONFIDENTIAL

TO: J. W. RAINES
WILMINGTON - M-5625

FROM: J. G. LOSCHIAVO
WASHINGTON WORKS

J.G.L.

TRENDS IN BLOOD C-8 LEVELS FOR VARIOUS TEFLON® OPERATING GROUPS

WASHINGTON WORKS

The attached Tables contain blood C-8 data for fifteen Fine Powder Zone 4* Operators, five FEP Zone 4 Operators, two TFE Zone 6 Operators, and eight FEP Zone 6 Operators. All thirty of these TEFLON® employees have had two samples drawn since August, 1980 and analyzed by the C-8 specific method. Blood C-8 data were obtained from the FLAIR program. The following observations are made:

- Rate of blood C-8 accumulation in new employees (i.e., employees with less than 700 days in the job) is higher for Fine Powder Zone 4 Operators than for FEP Zone 4 Operators. The highest blood C-8 accumulation rate for Fine Powder Zone 4 Operators is 0.0058 ppm/day while the highest rate for FEP Zone 4 Operators is 0.0011 ppm/day.
- One out of the four Fine Powder Zone 4 Operators with more than 700 days in that job shows a levelling off in blood C-8 while the other three show blood C-8 decreases.
- The two FEP Zone 4 Operators with more than 700 days in that job are showing blood C-8 decreases.
- Five out of eight FEP Zone 6 Operators are showing blood C-8 decreases. All eight of these employees have over 5000 days in that job.

There's a world of things we're doing something about

EID079349

000189

ALP002487

The data does show a general downward trend in blood C-8 levels for long-term TEFLON® employees. However, more data is needed before statistical significance can be claimed.

- * Fine Powder Zone 4 Operators consist of Dryer, Moisture Check, Environmental Control, Dispersion Packout, and Fine Powder Packout Operators.

TFE Zone 6 Operators consist of Autoclave Operators and Dispersion Processors.

FEP Zone 4 Operators consist of Wet Finishing, Oven, Packout, Shredder, and Dispersion Operators.

FEP Zone 6 Operators consist of Polykettle and Extruder Operators.

Attachment

JGL/nsw
0543W

EID079350

000190

AJP002488

TEFLON® FINE POWDER SERVICE OPERATOR - ZONE 4

<u>Reference Number</u>	<u>Date Of First Sample</u>	<u>C-8 In Blood (ppm)</u>	<u>Days In Job At Sample Date</u>	<u>Date Of Second Sample</u>	<u>C-8 In Blood (ppm)</u>	<u>Days In Job At Sample Date</u>	<u>Worked Other Teflon® Job(s) Before This Job (YES/NO)</u>	<u>Avg. Daily Rate of C-8 Decrease or Increase (ppm/day)</u>
	4/27/81	0.420	0	10/14/81	1.400	170	YES	+ 0.0058
	4/27/81	0.009	1	8/25/81	0.610	121	NO	+ 0.0050
	4/27/81	0.480	0	7/24/81	0.760	73	YES	+ 0.0038
	4/14/81	1.100	317	9/10/81	1.500	466	NO	+ 0.0021
	4/27/81	0.031	2	7/1/81	0.200	67	NO	+ 0.0021
	4/6/81	1.300	461	8/24/81	1.500	601	NO	+ 0.0014
	10/7/81	0.039	3	12/18/81	0.099	75	NO	+ 0.0008
	4/3/81	0.620	337	10/14/81	0.740	531	NO	+ 0.0006
	10/7/81	0.007	3	12/4/81	0.021	61	NO	+ 0.0002
	4/8/81	3.500	738	8/19/81	3.500	871	NO	0.0000
	8/28/81	0.650	124	12/9/81	0.640	227	YES	- 0.0001
	4/6/81	4.300	416	8/26/81	4.000	603	NO	- 0.0016
	4/6/81	2.100	918	8/31/81	1.700	1065	NO	- 0.0027
	8/19/80	4.600	1052	5/4/81	3.900	1310	NO	- 0.0027
	5/7/81	4.800	725	12/30/81	3.600	962	NO	- 0.0051

EID079351

000191

M3456
28/91/2
JGL/NSW

AJP002489

TEFLON® COPOLYMERS FEP SERVICE OPERATORS - ZONE 4

Reference Number	Date Of First Sample	C-8 In Blood (ppm)	Days In Job At Sample Date	Date Of Second Sample	C-8 In Blood (ppm)	Days In Job At Sample Date	Worked Other Teflon® Job(s) Before This Job (YES/NO)	Avg. Daily Rate of C-Deccase c Increase (ppm/day)
	4/29/81	0.009	↓	9/10/81	0.150	135	NO	+ 0.0011
	4/6/81	0.072	126	9/22/81	0.100	295	NO	+ 0.0002
	4/21/81	1.250	732	10/9/81	1.200	903	NO	- 0.0003
	4/30/81	0.760	115	9/28/81	0.660	266	NO	- 0.0007
	4/7/81	1.700	827	8/18/81	1.600	960	NO	- 0.0008

EID079352

TEFLON® TFE PROCESS OPERATOR FINE POWDER - ZONE 6

4/6/81	4.300	857	9/1/81	4.400	1005	NO	+ 0.0007
4/4/81	33.000	2022	7/6/81	32.000	2105	NO	- 0.0120

TEFLON® COPOLYMERS POLYKETTLE FEP OPERATORS - ZONE 6

8/20/80	4.900	8907	8/27/81	5.800	9279	NO	+ 0.0024
8/29/80	4.000	6846	10/14/81	4.500	7257	NO	+ 0.0012
8/18/80	1.200	5223	4/1/81	1.300	5449	YES	+ 0.0004
8/19/80	7.800	7729	9/25/81	7.500	8131	YES	- 0.0007
8/29/80	1.500	7760	8/13/81	1.200	8109	NO	- 0.0009
8/26/80	6.600	7757	8/7/81	5.300	8103	NO	- 0.0038
8/26/80	5.500	9112	8/5/81	4.200	9456	NO	- 0.0038
8/20/80	13.000	7940	7/17/81	9.600	8271	YES	- 0.0103

000192

W450
28/16/82
GL/nsw

AJP002490